

22763 U.S. PTO
030804

U.S. Express Mail No.: ER534274339US
Attorney Docket No.: AM-2044.C2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT APPLICATION TRANSMITTAL LETTER

In Re Patent Application of:)	Art Group: 1745
Tony Chiang et al.)	(Parent Application)
Application No.: Not Yet Assigned)	Examiner: J. A. Mercado
Filing Date: March 8, 2004)	(Parent Application)
Title: METHOD OF PREVENTING DIFFUSION)	Attorney Docket No.:
OF COPPER THROUGH A)	AM-2044.C2
TANTALUM-COMPRISING BARRIER)	
LAYER)	

22581 U.S. PTO
10/796602
030804

March 8, 2004

CERTIFICATE OF MAILING UNDER 37 CFR § 1.10
"U.S. EXPRESS MAIL" MAILING LABEL NUMBER : ER534274339US
DATE OF DEPOSIT: March 8, 2004
I hereby certify that this application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 having the MAILING LABEL NUMBER referenced above, addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the DATE OF DEPOSIT referenced above.

Shirley L. Church (Signature)
By: Shirley L. Church, Reg. No. 31,858 (Type Name)
Signature Date: March 8, 2004

CONTINUATION APPLICATION TRANSMITTAL LETTER

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

Applicant hereby files a [X] continuation [] divisional [] continuation-in-part application under 37 CFR § 1.53(b) of the prior complete application identified below.

IDENTIFICATION OF PRIOR COMPLETE APPLICATION

Title: As originally filed - DAMAGE-FREE SCULPTURED COATING DEPOSITION

Application Number: 09/886,439

Filing Date: June 20, 2001

Inventors: Tony Chiang; Gongda Yao; Peijun Ding; Fusen E. Chen; Barry L. Chin;
Gene Y. Kohara; Zheng Xu; Hong Zhang

Enclosed is a copy of the original, first, prior complete application, including a copy of the oath or declaration showing the signature of the inventors. The enclosed papers are a true copy of the prior complete application as filed, including the specification, claims, drawings and signed oath or declaration, and any amendments referred to in the oath or declaration filed to complete the prior application.

INVENTORS

1. ☒ The inventors of the present application are the same as in the prior complete application.
2. ☐ The inventor(s) of the present application have been changed to include the following named inventor(s): _____
 - a. ☐ It is requested that the following persons be deleted as inventor(s) in the present application: _____
 - b. ☐ The present application is a continuation-in-part of the prior complete application, and an oath or declaration as required under 37 CFR § 1.63 accompanies this paper.

AMENDMENTS

3. ☐ Enter the amendment previously filed under 37 CFR § 1.116, but unentered, in the prior application.
4. ☒ A preliminary amendment is enclosed.
5. ☒ Amend the specification by inserting before the first line the sentence: -- This application is a continuation application of U.S. Application Serial No. 09/886,439, filed June 20, 2001, which is a continuation application of Application Serial No. 08/978,792, filed November 26, 1997, which is abandoned. --
6. ☒ The title in the present application is as follows: METHOD OF PREVENTING DIFFUSION OF COPPER THROUGH A TANTALUM-COMPRISING BARRIER LAYER.

INTERNATIONAL PRIORITY

7. ☐ Priority of Application Serial No. _____, filed on _____, in _____(country) is claimed under 35 USC § 119.
8. ☐ The certified copy of the priority application:
☐ is enclosed;
☐ was filed on _____ in prior Application Serial No. _____; filed on _____;
☐ has not yet been filed.

PRIORITY UNDER 35 USC § 120

9. ☒ Applicants hereby claim priority under 35 USC § 120, wherein the priority applications are Serial Nos. 08/978,792 and 09/886,439.

ATTORNEY OR AGENT OF RECORD

10. ☒ The power of attorney in the prior application is to: Michael L. Sherrard (Reg. No. 28,041); Peter J. Sgarbossa (Reg. No. 25,610); Donald J. Verplancken (Reg. No. 33,217); Michael B. Einschlag (Reg. No. 29,301); Lawrence Edelman (Reg. No. 25,225); Raymond Kam-On Kwong (Reg. No. 37,165); Leslie Weise (Reg. No. 36,305); James C. Wilson (Reg. No. 35,412); Shirley L. Church (Reg. No. 31,858); and Kathi (Rafayko) Bean (Reg. No. 36,644).
- a. ☒ The power appears in the original papers in the prior application.
b. ☐ Since the power does not appear in the original papers, a copy of the power in the prior application is enclosed.
11. ☒ A copy of the Declaration & Power of Attorney is enclosed.

OTHER

12. ☒ Also enclosed: A copy of the assignment document in the parent application.
13. ☐ Cancel in this application Claims _____ of the prior application before calculating the filing fee. (At least one independent claim must be retained for filing purposes.)
14. ☒ Cancel in this application all claims of the prior application and substitute the claims contained in the attached Preliminary Amendment prior to calculating the filing fee.
15. ☐ Add the additional claims in the attached Preliminary Amendment prior to calculating the filing fee.

FEES DUE

16.

CLAIMS					
	NO. OF CLAIMS		EXTRA CLAIMS	RATE	FEE
Basic Application Fee					\$ 770.00
Total Claims	4	MINUS 20 =	0	x \$18 =	00.00
Independent Claims	1	MINUS 3 =	0	x \$86 =	00.00
If multiple dependent claims are presented, add \$290.00					00.00
TOTAL APPLICATION FEE DUE					\$ 770.00

17. ☐ A Petition for Extension of Time to respond to the outstanding official action in the prior application, up to and including the filing date of the present application, is enclosed, the fee for which is \$_____.

18. ☒ New drawings are enclosed (☒ formal ☐ informal)

PAYMENT OF FEES

19. The full fee due in connection with this communication is \$ 770.00, and is provided as follows:

a. ☐ Check No. _____ in the amount of \$ _____ is enclosed.

b. ☒ The Commissioner is hereby authorized to charge the filing fee of \$ 770.00, as well as any additional fees which may be due under 37 CFR § 1.16 and § 1.17, which are required by this paper, and to credit any overpayment, to Deposit Account No. 50-1074 of Applied Materials, Inc., Santa Clara, California.

This transmittal letter is submitted in duplicate.

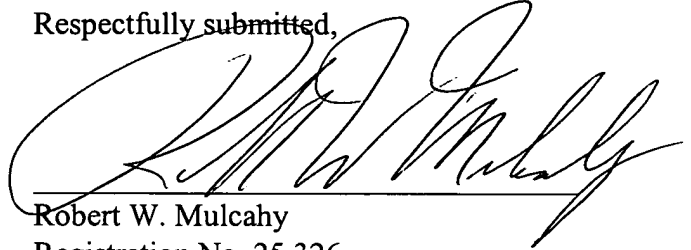
CORRESPONDENCE ADDRESS

Address all future communications to:

Patent Counsel
Applied Materials, Inc.
P.O. Box 450 A
Santa Clara, California 95052

Express Mail No. ER534274339 US
Attorney Docket No.: AM-2044.C2

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'R. W. Mulcahy', written over a horizontal line.

Robert W. Mulcahy
Registration No. 25,326
Attorney for Applicants

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